

GABRIL'YAN, R.A.

Granulometric characteristics of sands and limestones in Cretaceous
sediments of the Kyzyl Kum. Vop.geol.Uzb. no.2468-75 '61.
(MIRA 15:12)

(Kyzyl Kum—Sand) (Kyzyl Kum—Limestone)

GABRIL'YAN, R.A.

Typomorphic variations of zircon, rutile, tourmaline, and
staurolite in Cretaceous sediments of the western subsidence
of the Nura-Tau. Vop. geol. Uzb. no. 3:121-127 '62.
(MIRA 16:6)

(Nura-Tau...Mineralogy)

GABRIL'YAN, R.A.

Basic characteristics of paleogeographic conditions governing
the accumulation of Cretaceous sediments in the Kyzyl Kum, Uzb.
geol. zhur. 7 no.5:40-51 '63. (MIRA 17:3)

1. Institut geologii i razrabotki neftyanykh i gazovykh mestorozh-
deniy AN UzSSR.

GABRIOLAVICHUS, V. I.

GABRIOLAVICHUS, V. I. --"Effect of Mesatone on the Functions of Certain Systems of Horses and Dogs."*(Dissertation for Degrees in Science and Engineering Defended at USSR Higher Educational Institutions) Acad Sci Lithuanian SSR, Inst of Biology, Kaunas, 1955

SO: Knizhnaya Letopis', No. 25, 18 Jun 55

* For Degree of Candidate in Veterinary Sciences

GABRIOLAVICHUS, V.I. [Gabriolavicius, V.I.], kand.vet. nauk.

Use of mesaton in veterinary practice. Veterinariia 35 no.10:60-62
0 '58. (MIRA 11:10)

1. Litovskaya veterinarnaya akademiya.
(Phenylephrine) (Veterinary materia medica and pharmacy)

GABRIELAVICIUS, V. I., (Assistant Professor of Lithuanian Veterinary Academy)

Examination of blood and exudate in traumatic rat calvaritis.

Veterinariya vol. 38, no. 7, July 1961 p. 17.

GABRIOLAVICHUS, V.I. [Gabiolavicius, V.], absent

Investigation of the blood and exudate in traumatic reticuloperitonitis. Veterinaria 38 no. 7:67-68 Jl '61.
(MIRA 16:8)

1. Litovskaya veterinarnaya akademiya.
(Peritonitis)
(Lithuania--Cattle--Diseases and pests)

GABRIOLAVICHUS, V.I. [Gabriolavicius, V.]; CEPULIS, I.I. [Cepulis, F.]

Percussion of the ventral part of the abdominal wall in traumatic
reticuloperitonitis. Veterinariia 39 no.1:49-51 Ja '63.

(MIRA 16:6)

(Peritonitis) (Percussion) (Lithuania--Cattle--Diseases and pests)

GABRIOLAVICHUS, V.I. [Gabriolavicius, V.], dotsent

Examination of the pharynx and the larynx in cattle by using a
spatula. Veterinaria 40 no.7:54-55 Jl '63. (MIRA 16:8)

1. Litovskaya veterinarnaya akademiya.
(Spatula) (Veterinary instruments and apparatus)

GABRIOLAVICHUS, V.I. [Gabriolavicius, V.], dotsent

Obtaining sputum from the lungs of cattle. Veterinariia 41
no.7:67-69 Jl '64. (MIRA 18:11)

1. Litovskaya veterinarnaya akademiya.

L-34837-65

ACCESSION NR: AF5008537

S/0286/65/000/006/0048/0048

12
GAUTHOR: Gabriolavichus, V. I.

TITLE: A device for forcing solutions into the respiratory passages of large animals such as cattle. Class 30, No. 169204

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 6, 1965, 48

TOPIC TAGS: respiratory system, veterinary medicine

ABSTRACT: The Author's Certificate introduces a device for forcing solutions into the respiratory passages of large animals such as cattle. The unit contains an elastic tube, a hermetically sealed vessel and forced-air pump. Medicinal and diagnostic solutions are forced into the respiratory passages of the animal in vaporized form by using a double-walled tube with an air gap between the walls and by mounting an atomizer on the end of the tube which is introduced into the trachea.

ASSOCIATION: none

SUBMITTED: 28Feb63

ENCL: 01

SUB CODE: LS

NO REF SOV: 000

OTHER: 000

Card 1/2

GABRIS, F.

Universal rotary voltmeter for measurements up to 300 kv. p. 182.

ELEKROTECHNICKY CASOPIS. (Slovenska akademia vied) Bratislava, Czechoslovakia,
vol. 10, no. 3, 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959
Uncl.

GABRIS, Frantisek, inz.

Measurement of voltage distribution on insulator chains by the
current method. El tech obzor 51 no.7:342-345 Jl '62.

1. Katedra energetiky, Slovenska vysoka skola technicka,
Bratislava.

GABRIS, JURAJ.

Vyber domacich zvierat na chov a plemeno. Bratislave, Statne
podohospodarske nakl., 1954. 331 p. (Zivocisna výroba, no. 10)
[Selection of domestic animals for breeding]

DA Not in DLC

SOURCE: East European Accessions List, (EEAL) Library of
Congress, Vol. 6, No. 1, January 1957

GABRIS, Juraj

Q-3

CZECHOSLOVAKIA/Farm Animals - Cattle.

Abs Jour : Ref Zhur - Biol, No 7, 1958, 30941

Author : Chomkovic Grigorij, Gabris Juraj

Inst Title : The Study of the Body Forms of the Pinzgau Cattle in the District of Dolny Kubin by the Biometric Method. Part I. The Study of the Adult Cattle. (Issledovaniye form tela pintsgauskogo skota v rayone Dol'nyy Kubin biometricheskim metodom. Ch.I. Issledovaniye vzroslogo skota).

Orig Pub : Polnohospodarstvo, 1957, 4, No 3, 443-493.

Abstract : The results of the measurements of 1,480 cows, 64 oxen, and 5 bulls, are given. On the basis of statistical processing of numerical data, the following average indexes were obtained (in cm.): for cows 6-12 years old - height at the withers 120.09 (103-137); length of the body 144.91 (125-174); circumference of the shin

Card 1/2

GABRIEL, J.

CZECHOSLOVAKIA/Farm Animals - Cattle...

Q-2

Abs Jour : Ref Zbir. - Biol., No 1, 1959, 2654

Author : Gabris, J., Chomkovic, G.

Inst :

Title : Studies in the Body Forms of Pinzgau Cattle in the Dolny
Kabin Region (Czechoslovakia) by the Biometric Method.
Part II. The Growth of Young Stock.

Orig Pub : Polnouzemepodarstvo, 1957, 1, No 5, 907-960.

Abstract : Biometric processing of the results of the measurements
of 732 heifers (H) aged up to 3 years and 443 bull cal-
ves (B) showed: at poor nutrition, their growth lag is
not compensated with age; at the age of 2-4 months, the
development of B was less intensive than that of H; at
the age of 6-12 months, it was more intensive and then
it slowed down again; and at the age of 18 months to 2
years it was much more intensive; the development of H

Card 1/2

- 19 -

GABRIS, Juraj, dr. inz. CSc.

Changes in the proportions and body chemical composition of white thoroughbred pigs during their growth. Veter medicina 9 no. 2: 131-140. Mr '64.

1. Higher School of Agriculture, Faculty of Veterinary Medicine, Chair of General and Special Zootechny, Kosice. Head of the Chair: [assistant professor, dr. inz. CSc.] Juraj Gabris.

GABRI, Pal (Budapest). Szerecs, Otto (Budapest); GEPEER, Izre (Budapest)

Forum of innovators. Utca 17 n.6:30 - 30 Mr '65.

C.A.

GABRIEL, Tiber

Studies in silicochemistry and their practical applications
Gábor Gabriel, Magyar Tok. J. No. 12, 87 (1978). A
review.
Lszló Fájoly

SHNEYDER, A.D.; GABRISHCHAK, I.V.

Structure and properties of the system HgTe--CdTe. Fiz. tver. tela
2 no.9:2079-2081 S '60. (MIRA 13:10)

1. L'vovskiy gosudarstvennyy pedagogicheskiy institut.
(Mercury telluride) (Cadmium telluride)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000513930002-8

ILARIONOV, V.A., kand.tekhn.nauk; GABRIYAL, R.Sh.

Side skid testing of motor vehicles. Avt.prom. 29 no.12:19-21
D '63. (MIRA 17:4)

1. Moskovskiy avtodorozhnyy institut.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000513930002-8"

GABRIYANIK, N.A....(Moskva)

Treatment of Addison's diseases. Klin.med. 36 no.10:54-60 0 '58
(MIRA 11:11)

1. Iz propedevticheskoy terapevticheskoy kliniki (dir.
deyatel'nyy chefn AMN SSSR prof. V.kh. Vasilenko) I Moskovskogo
ordena Lenina Meditsinskogo instituta imeni I.M. Sechenova.
(ADDISON'S DISEASES, ther.
(Rus))

GABRIYANIK, M.A. (Moskva)

Some features of the course of peptic ulcer in women. Klin.med. 37
no.10:62-67 O '59. (MIRA 13:2)

1. Iz kliniki propedevticheskoy terapii (direktor - deystvitel'nyy
chlen AMN SSSR prof. V.Kh. Vasilenko) I Moskovskogo ordena Lenina
meditsinskogo instituta imeni I.M. Sechenova.
(PEPTIC ULCER)

GABRIYELEV, A. I.

58/49T52

USSR/Engineering
Boilers

Jun 49

"First Operational Results of the 'KRSh' Boiler System," A. I. Gabriyelev, Engr, M. A. Lur'yev, N. S. Bassudov, Cand Tech Sci, 6 1/3 pp

"Za Ekam Top" No 6

Describes the Kurochko, Bassudov, Shafran (KRSh) boiler system with an output of 2 tons per hour at a pressure of 20 atm. It is simple in construction, and economical in operation.

58/49T52

LIBERMAN, Grigoriy Romanovich; GABRIYEL'YAN, A.I., red.; TEL'NOV, N.V.,
red., izd-va; KHENOKH, F.M., tekhn. red.

[Prevention of the breakdown and malfunction of boiler equipment]
Preduprezhdenie avarii i nepoladok kotel'nogo oborudovaniia.
Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1962. 214 p.

(Boilers—Maintenance and repair)

(MIRA 15:9)

GABRIYELOV, Kh., inshener.

Multiple stope mining in preparatory work. Mast.ugl.3 no.10:
6-7 0 '54. (MLRA 7:12)
(Coal mines and mining)

GAB' IYELOV, KM. L.

305

Podgotovka Vremennykh Uchastkov Po Plastu "Novyy" v Karelgandinskem
Basseyne. M., 1954. 73s S Ill., 1 L. Shem. 22 SM. (U-vo Bol'soy Prom-sti
Sssr. Tekhn. Upr. Tsentr. In-t Tekhn. Informatsii). 3.000 EKZ. Bespl.
(54-54723 P.)

660.333:622.76

SO: Knizhnaya, Letopis, Vol. 1, 1955

GABRIYLOV, Khachatur Bogdanovich; GORITSKIY, A.V., otvetstvennyy redaktor;
SAVIN, M.M., redaktor Izdatel'stva; KOROVENKOVA, Z.A., tekhnicheskiy
redaktor

[Speedy driving of horizontal and inclined tunnels in the Karaganda
Coal Basin] Skorostnoe provedenie gorizonta'nykh i naklonnykh
gornykh vyrabotok v Karagandinskem ugol'nom basseine. Moskva,
Ugletekhnidat, 1956. 66 p.
(Karaganda Basin--Coal mines and mining)

GABRIYELOV, Kh. B. Cand. Tech. Sci. -- (diss) "Perfectioning
methods of mining ^{the development of} ~~mining~~ strata in the Karagandy ¹ ~~bastin~~ ^{bastin}."
Alma-Ata, 1958, 19 pp with graphs; 2 sheets of drawings
(Min of Higher Education USSR. Kazakh ~~min~~ Mining Metalurgical
Inst) 120 copies. List of author's works, pp 18-19
(10 titles) (KL, 28-58, 105)

GABRIYELOV, Kh.B.

Field preparation of Karaganda Basin coal seams. Mauch. trudy
KNIUI no.2:3-27 '58. (MIRA 13:8)
(Karaganda Basin--Coal mines and mining)

GABRIYELOV, Kh; SERBO, O.

Advantages of hard headings. Mast. ugl. 7 no.10:15 0 '58(MIRA 11:11)

|Karagandinskiy nauchno-issledovatel'skiy ugol'nyy institut.
(Coal mines and mining)

GABRIYEV, Kh.B., gornyy inzh.; BEVZIK, Yu.Ya., gornyy inzh.

Efficient use of filling development openings in Karaganda Basin
conditions. Ugol' 33 no.11:12-18 N '58. (MIRA 11:11)
(Karaganda Basin--Mine filling)

GABRIYELOV, Kh.B., kand.tekhn.nauk

Improving the methods of seam development in the Karaganda Basin.
Izv. vys. ucheb. zav.; gor. zhur. no.10:50-52 '60. (MIRA 13:11)
(Karaganda Basin--Coal mines and mining)

GABRIELOV, L.B.; PENTKOVSKAYA, V.V.; IL'INA, I.V., red.; SERBIN, Ye.M.,
tekhn. red.

[Postwar struggle of the CPSU for the reconstruction and development
of the national economy; from 1945 to 1953, documents and materials]
Bor'ba KPSS za vosstanovlenie i razvitiye narodnogo khoziaistva v
poslevoennyi period, 1945-1953 gody; dokumenty i materialy. Moskva,
Gos. izd-vo polit. lit-ry, 1961. 402 p. (MIRA 14:9)
(Russia—Economic conditions)

S/137/63/000/002/005/034
A006/A101

AUTHORS: Gabriyelova, L. I., Livshits, A. K.

TITLE: Industrial production of PANG flocculant and its use in dehydrating processes

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1963, 7 - 8, abstract 2G45 ("Sb. tr. n.-i. in-t tsvetn. met.", 1962, no. 19, 279 - 288)

TEXT: The PANG flocculant can be easily produced at concentration plants from the commercial "Polinak" polymer by acid or alkaline hydrolysis. The use of 2% aqueous solution of alkali PANG in liquefaction of oxidized Cu-concentrate under industrial conditions, made it possible to replace three liquefying agents by two, and eliminate Cu losses in decantation.(up to 1.5 tons/day). Approximate industrial tests with acid PANG in liquefaction of a cement copper concentrate show that at a yield of the concentrate as high as 12 - 15 tons/day, the addition of 50 - 70 g/ton of flocculant reduces the liquefaction surface by a factor of 8. Alkali PANG increases the efficiency of filters by a factor of 2 - 2.5 in the operation of Cu-concentrate liquefaction; the moisture content

Card 1/2

Industrial production of...

S/137/63/000/002/005/034
A006/A101

in the cakes is reduced by about 3%. By supplying PANG to the decantation tank of the filter, the efficiency of equipment for filtrating Pb-concentrate pulp can be risen by a factor of 1.5 - 2.

From the summary

[Abstracter's note: Complete translation]

Card 2/2

LEBEDEV, V.V.; ADONIN, A.N.; GAERIYELOV, L.V.

Problems in using gas anchors. Trudy KF VNII no.5:92-104 '61.
(MIRA 14:10)
(Oil wells—Equipment and supplies)

GABRIYELOV, L.V.; SHEVTSOV, A.A.; LITVINOV, A.Ya.; KHIRNYKH, L.A.

Automation of group measuring installations. Neftianik 7 no.4:11-13
Ap '62. (MIRA 15:11)

1. Nachal'nik tsekha avtomatiki neftepromyslovogo upravleniya
Akinnneft' (for Gabriyelov). 2. Glavnyy inzh. neftepromyslovogo
upravleniya Abinneft' (for Shevtsov). 3. Starshiy inzh. promyslovoy
gruppy tsekha avtomatiki neftepromyslovogo upravleniya Abinneft'
(for Litvinov). 4. Starshiy inzh. gruppy telemekhanizatsii tsekha
avtomatiki neftepromyslovogo upravleniya Abinneft' (for Khirnykh).

(Kuban--Petroleum--Measurement)

(Automatic control)

GABRIELOV, V. M.

USSR/Engineering
Power Plants, Thermal
Power Plants, Equipment

Jun 48

"The Application of Technological Charts to Thermomechanical Plants," A. A. Bernsteyn,
V. M. Gabrielov, Engineers, 4 pp

"Elek Stants" Vol XIX, No 6

Treats under: (1) brief explanatory note, (2) sketch of block, (3) rigging system,
(4) calculation of time norms and estimates, (5) flow sheets, (6) sketches of appliances,
(7) inventory of tool, fixture, and auxiliary-material requirements, (8) in and out
work log and (9) accounting files.

PA 32/49T31

8(6)

PHASE I BOOK EXPLOITATION SOV/2318

Gabriyelov, Vasiliy Mikhaylovich

Osobennosti montazha oborudovaniya sverkhvysokikh parametrov na Cherepetskoy GRES (Aspects of Installing Equipment of Superhigh Parameters at the Cherepet' State Regional Electric Power Plant) Moscow, Gosenergoizdat, 1957. 30 p. (Series: Iz opyta sovetskoy energetiki) Errata slip inserted. 2,500 copies printed.

Ed.: N.A. Rogovin; Tech. Ed.: K.P. Voronin.

PURPOSE: This book is intended for power-plant personnel.

COVERAGE: The author describes experience gained by the personnel of "Mosenergomontazh" in the assembly and installation of turbines, boilers and auxiliary equipment for supercritical pressures and temperatures at the Cherepet' State Regional Electric Power Plant. Special features of the installation and starting of power-plant equipment is described, and data on installation time and labor expenditure are presented. Methods

Card 1/4

Aspects (Cont.)

SOV/2318

of welding high-alloy steam piping, quality control of welding operations, heat treatment of welded joints and the construction of heating equipment are also described. No personalities are mentioned. There are no references.

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Aspects (Cont.)

SOV/2318

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Card 3/4

Aspects (Cont.)

SOV/2318

6. Fittings for superhigh parameters

30

VI. Conclusions

AVAILABLE: Library of Congress

Card 4/4

J0/jb
10-30-59

~~GR 3 RHE 2001~~

Synthetic flotation agents. A. K. Ladd, Jr., L. C. Briley, and H. M. Hazen, Jr. U.S. Pat. No. 3,125,198. Flotation agents are obtained from the residues from hexane extraction of a mixture of higher fatty or resinous acids, or fatty acids and esters, and the product with sodium lauryl sulfate and diisopropyl ether. These agents are used to reduce surface tension and facilitate the flotation of fine

GABRIELOVA L.I.

137-58-6-11319

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 9 (USSR)

AUTHORS: Livshits, A.K., Gabriyelova, L.I.

TITLE: Synthetic Flocculants (Sinteticheskiye flokulyanty)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 21, pp 12-17

ABSTRACT: The synthesis and testing of efficient flocculants, made by polymerization and polycondensation, are presented. It is shown that the best of the American flocculants tested is Separan-2610. Slightly inferior to Separan is a product of the condensation of cubic hexamethylenediamine residues, tallol and dichloroethane (KODT), polyacrylic amides, and a copolymer of vinyl alcohol, methylolcrotonamide and polyvinyl alcohol. Products of caustic hydrolysis and polyacrylonitril (PANG-55 and 56) and a product of the condensation of cubic residues of hexamethylenediamine and dichloroethane have good flocculating capacities.

A.Sh.

1. Synthetic flocculants--Materials 2. Synthetic flocculants
--Production

Card 1/1

GEL'PERIN, N.I.; IDEL'SON, Ye.M.; LIVSHITS, A.K.; ZIL'BERG, V.I.; BORISENKO, A.T.; GABRIYELOVA, L.I.

Improving methods of xanthate production. Report no.1: Preparation of potassium and sodium butyl and theyl xanthates from anhydrous alcoholates. Sbor.nauch.trud.GINSTVETMET no.16:153-169 '59.
(MIRA 14:4)

(Xanthic acid)

(Alcoholates)

GEL'PERIN, N.I.; IDEI'SON, Ye.M.; LIVSHITS, A.K.; BORISENKO, A.T.;
GABRIELOVA, L.I.; ZIL'BERG, V.I.

Improving methods of xanthate production. Report no.2: Preparation
of potassium and sodium isobutyl and isoamyl xanthates from practically
anhydrous alcoholates. Sbor.nauch.trud.GINTSVETMET no.16:170-179
'59. (MIRA 14:4)

(Xanthic acid)

(Alcoholates)

IDEI'SON, Ye.M.; GEL'PERIN, N.I.; LIVSHITS, A.K.; GABRIYELOVA, L.I.

Improving method of xanthate production. Report no.3, Obtaining high-quality xanthates from water-alcohol alkali solutions. Sbor. nauch. trud. GIINTSVETMET no.16:180-190 '59. (MIRA 14:4)
(Xanthic acid)

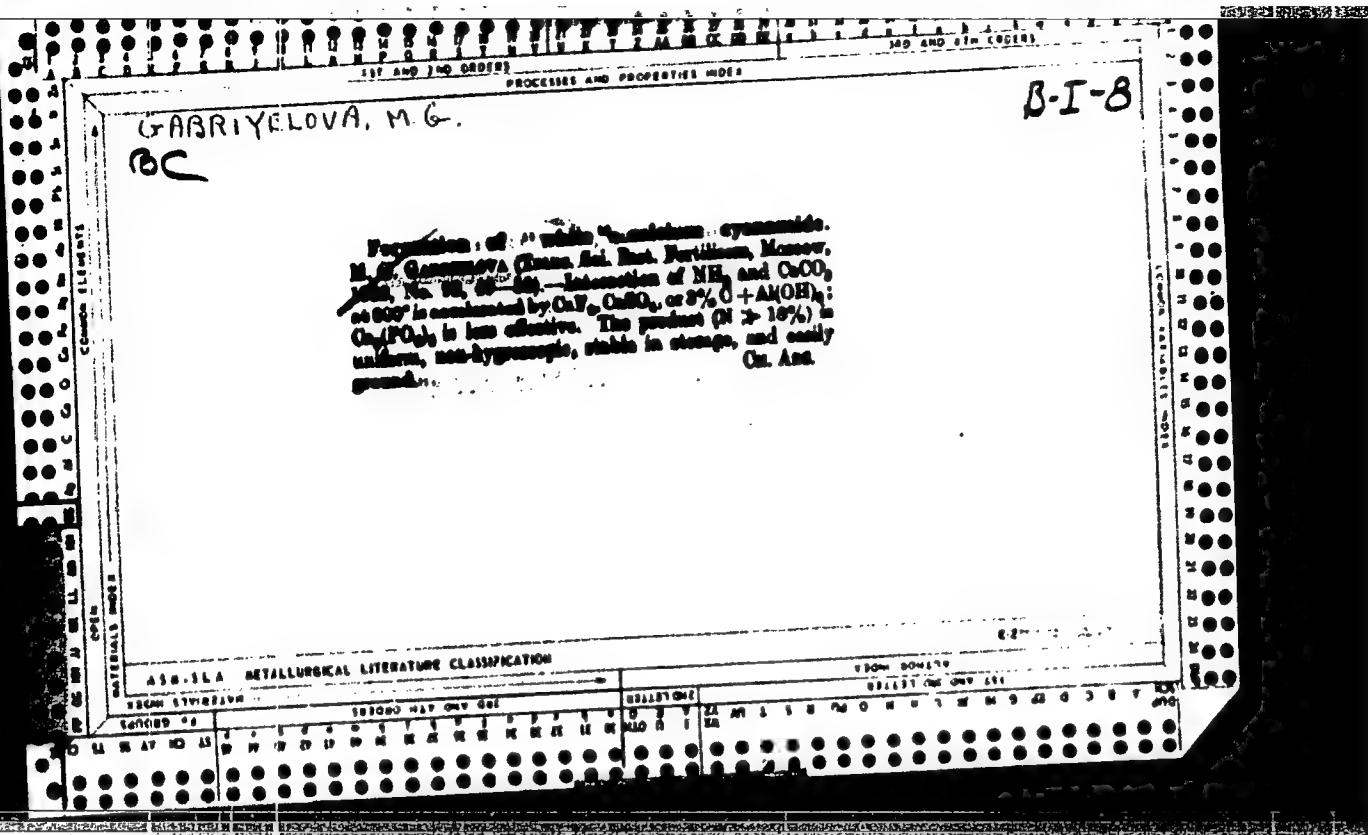
GABRIYELOVA, L.I.; LIVSHITS, A.K.

Industrial production of the flocculant PANG and its use in
dehydration processes. Sbor. nauch. trud. Gintsvetmeta no.19:
279-283 '62. (MIRA 16:7)

(PANG) (Ore dressing—Equipment and supplies)

GABRIYELOVA, L.I.; LIVSHITS, A.K.

Using new effective flocculants for thickening in acid and
mineralized solutions. TSvet. met. 36 no.3:77-78 Mr '63.
(MIRA 16:5)
(Flocculation) (Nonferrous metals--Metallurgy)



Spectroscopic determination of carbon monoxide in minute concentrations. D. A. Epstein and M. G. Gabrilova. *Zarubezh. Lab.* 2, No. 4, 20 (1957); I. I. Kagan, *C. A.* 50, 7011. The method of Neklyudov (C. A. 47, 2000), applied to the spectroscopic detn. of CO in concn. of 0.044-0.046% in gas mixts. for the production of synthetic NH₃, produced good results. Spectroscopic method of determining carbon monoxide. S. I. Kagan and A. V. Pamsilov. *Ibid.* 3, 736 (1958). The above procedure was found unsatisfactory. Chas. Blane

1A

PROCESSED AND INDEXED 1968

The production of barium polysulfide. M. Galbagni.
J. Chem. Ind. (U. S. S. R.) 16, No. 10, p. 1060 (1960).
BaS_n for intercalates is prepd. by fusing a 3:1 mixt. of BaS₂ and S₂ and coke or coal at 1100-1250° for 3-7 hrs., cooling, grinding and mixing in a ball mill with S. H. M. 1

ASB-LSA METALLURGICAL LITERATURE CLASSIFICATION

1960-1968

SEARCHED INDEXED

SEARCHED INDEXED

SEARCHED INDEXED

GABRIYELOVA, M-G

PROCESSES AND PROPERTIES NOTE

100% AND 50% COPIES

OA

13

Inorganic insecticides. M. G. Galickova and K. A. Gar. Nauch.-Tekhnich. Inst. Udal'nost' i Insektosuzhd. Ts. V. Samoilova (Moscow) 1919-39, No. 61; Khim. Referat. Zhur. 1940, No. 5, 40. — A review of various methods for producing $Cu_3(AgO)_2$ by oxidizing arsenite by air in the presence of $CuSO_4$, production of powd. Na_2HAsO_3 (instead of the paste), production of meritol ($Cu_3(AgO)_2$ with 20% of Ag_2O , dild. with clay) and supermeritol (contg. approx. 30% of Ag_2O and 20% of CuO). A prepn. of the solar type was produced by mixing the ground melt of tech. Na_2S with elementary S, which forms the polysulfides on soln. in water. This prepn. possesses a no. of advantages over the lime-S prepns. Insecticides can be prepn. in the form of a paste from S obtained by absorbing H_2S from coke-oven and producer gas. A method for producing suspensions from this paste with sulfite cellulose exts. as stabilizers, was developed. W. R. Henn

AISB-SEA METALLURGICAL LITERATURE CLASSIFICATION

1000000-00	1000000-00	1000000-00	1000000-00	1000000-00												
				1	2	3	4	5	6	7	8	9	10	11	12	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

GABRIYLOVA, M. G.

"The Use of 'Gas Sulfur' Paste in Agriculture," M. G. Gabriyelova, and M. S. Limonik, Coke and Chem (USSR) XI, No 3, pp 31-3(1941); Chem Zentr 1943, I, pp 994 (SEE: Inst. Insect/Fung. in Ya. V. Samoylov)

SO: U-237/49, 8 April 1949

GABRIYLOVA, M. G.

USSR/Medicine - Insecticides
Medicine - Agriculture

Nov 47

"Development of the Agricultural Insecticide Industry in Thirty Years," V. I. Orlov,
Cand Tech Sci, K. A. Gar, Cand Agr Sci, M. G. Gabriyelova, Cand Tech Sci, 3½ pp

"Khimicheskaya Promyshlennost'" No 11

Historical account of development in the insecticide industry. Persons important in
chemical research work in insecticides are listed and some examples are presented of
the technological progress and development of insecticide products.

PA 34T48

Dok. Insecticides & Fungicides, Sci. Inst. Fertilizers and Insects - Fungicides
in. Ya. V. Savorylov

Calcium fluoride and Hydrogen fluoride from fluorosilicic acid. S. I. Volfovich and M. G. Gabrielyan. *J. Appl. Chem. U.S.S.R.* 25, 381-5 (1952) (Engl. translation); *Zhur. Priklad. Khim.* 25, 345-9 (1952).—SiF₄ from the manuf. of superphosphates is absorbed in H₂O to form H₂SiF₆ and SiO₂. H₂SiF₆ is neutralized with CaO or CaCO₃, and the CaSiF₆ is converted to CaF₂ and SiO₂. The most favorable conditions for the complete binding of the CaO during pptn. are: (1) a CaO: H₂SiF₆ ratio of 2.5 and a concn. of 1.2-4.5% CaSiF₆ in the liquid phase, (2) a concn. of th. initial H₂SiF₆ between 8 and 14%, (3) finely ground chalk or limestone or freshly burnt lime, (4) heating the reaction mixt. to 70-80° with continuous stirring for 2-3 hrs. The pptd. CaF₂ is dried at 110-130°. The rate of filtration of the ppt. increases as the pH increases. The product from H₂SiF₆ and CaCO₃ under the optimum conditions contained CaF₂ 62-66, CaCO₃ 2-12, SiO₂ 19-33, and esquioxide not in excess of 0.4%. The CaF₂ was a fine white cryst. powder with nearly spherical crystals 2-5 μ in diam. CaF₂ can also be prep'd. from the thermal decompn. of CaSiF₆ at 380-400° into CaF₂ and gaseous SiF₄. The optimum conditions for the isolation of cryst. CaSiF₆·2H₂O from aq. soln. are: (1) a CaO: H₂SiF₆ ratio of 0.97; (2) a H₂SiF₆ concn. not lower than 10%; (3) careful stirring until the residual concn. of free H₂SiF₆ is not less than 0.5%. The bulk of the CaSiF₆ ppt.; the remaining 12-15% CaSiF₆·2H₂O in the filtrate can be obtained by evapn. CaSiF₆·2H₂O loses its water of cryst. upon heating above 140°. Yields of 91.6-94.5% CaF₂ were obtained by this method, the impurities being

over

3-5% CaO, 2-3% SiO₂, and about 1% sesquioxides. Artificially prepd. 64-68% CaF₂ is recommended as a substitute for natural fluorspar in the production of cement and glass. High-grade CaF₂ from the thermal decompr. of CaSiF₆ is recommended for the production of HF by reaction with H₂SO₄. CaSiF₆ is recommended as a wood fungicide.

George L. Jones, Jr.

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Separation of fluorine in the production of double superphosphates.
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L 44769-66 EWT(d)/EWT(m)/EWT(l)/EWT(t)/ETI/EWP(l) L12(a) JD/JN/VR
ACC NR: AP6031407 SOURCE CODE: UR/0064/66/000/009/0063/0064

AUTHOR: Gabriyelova, M. G.; Semenov, A. N.; Nikitash, V. G.

ORG: none

TITLE: A new method for defluorination of phosphoric acid

SOURCE: Khimicheskaya promyshlennost', no. 9, 1966, 63-64

TOPIC TAGS: phosphoric acid, defluorination, sodium fluosilicate

ABSTRACT: A new method for defluorination of raw phosphoric acid has been introduced at the Krasnouralsk Copper Combine. The method differs from the conventional removal of volatile fluorine compounds which involves evaporation at the acid concentration stage by the precipitation of sodium fluosilicate with soda-sodium sulfate solution prior to the concentration operation. The soda-sodium sulfate solution (which also contains Al_2O_3 , Fe_2O_3 , $NaCl$, SiO_2 , etc.) is obtained as a by-product in the manufacture of aluminum and contains approximately 7% Na_2CO_3 and approximately 15% Na_2SO_4 . Stoichiometric quantities of this solution are added to the raw phosphoric acid at 60-65°C. The precipitated Na_2SiF_6 is separated by settling and filtering or centrifuging. The sediment is washed twice with water; the washing liquids are recirculated by adding them to the defluorinated acid (wash I) and to the soda-sulfate solution (wash II). The precipitation removes 75-80% of total fluorine from the raw acid; the residual fluorine content depends on the solubility of Na_2SiF_6 in the given

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UDC: 66/067.661.634.2-963.546.16

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